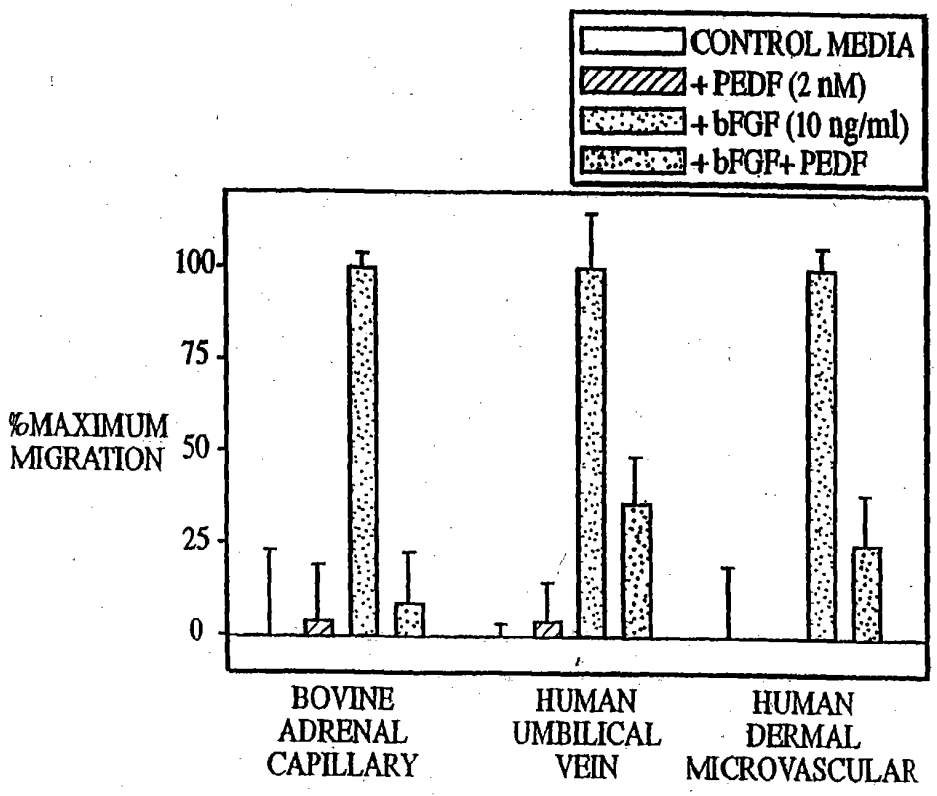

CONTROL MEDIA
+ PEDF (2 nM)
+ bFGF (10 ng/ml)
+ bFGF+ PEDF
%MAXIMUM MIGRATION
100
75
50
25
0
BOVINE ADRENAL CAPILLARY
HUMAN UMBILICAL VEIN
HUMAN DERMAL MICROVASCULAR

FIG. 1

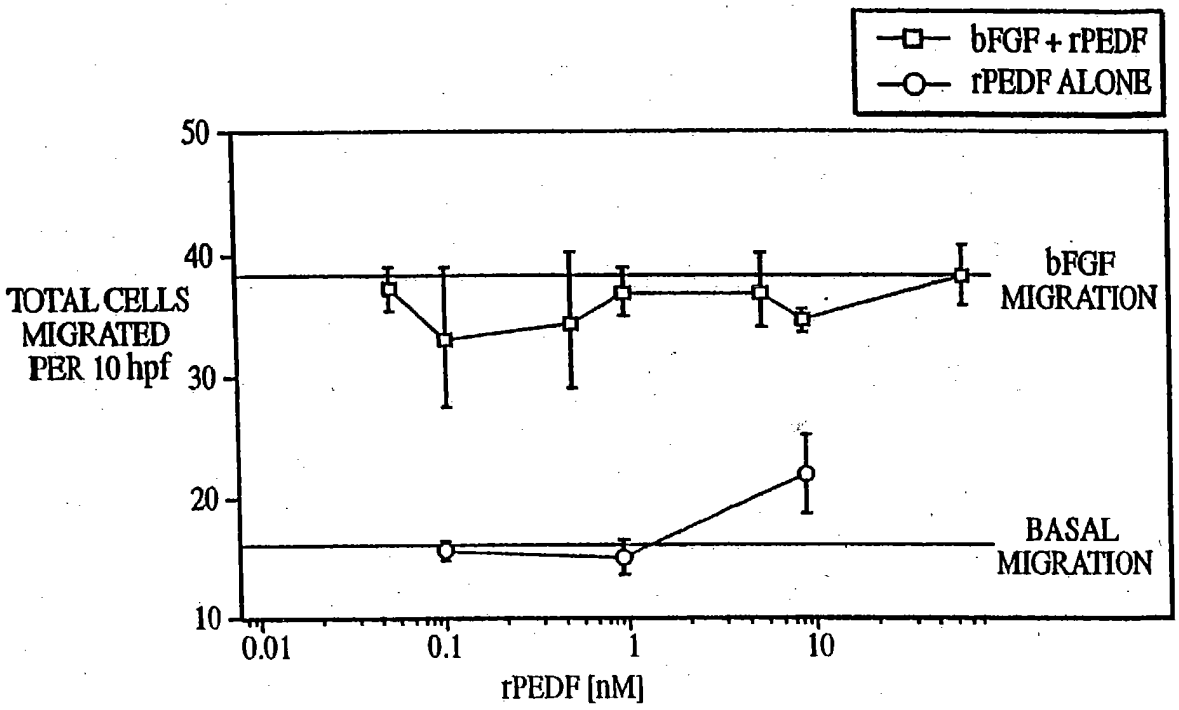

bFGF + rPEDF
rPEDF ALONE
TOTAL CELLS MIGRATED PER 10 hpf
50
40
30
20
10
bFGF MIGRATION
BASAL MIGRATION
0.01
0.1
1
10
rPEDF [nM]

FIG. 2A

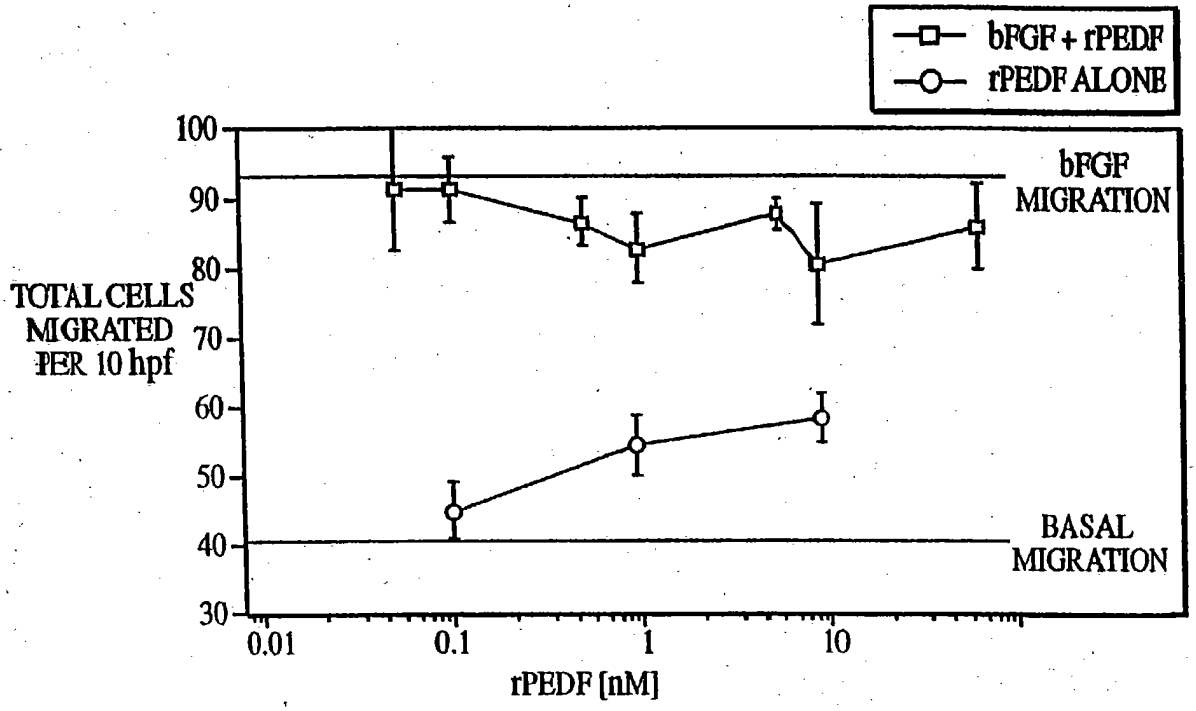

bFGF + rPEDF
rPEDF ALONE
100
90
80
70
60
50
40
30
TOTAL CELLS MIGRATED PER 10 hpf
bFGF MIGRATION
BASAL MIGRATION
0.01
0.1
1
10
rPEDF [nM]

FIG. 2B

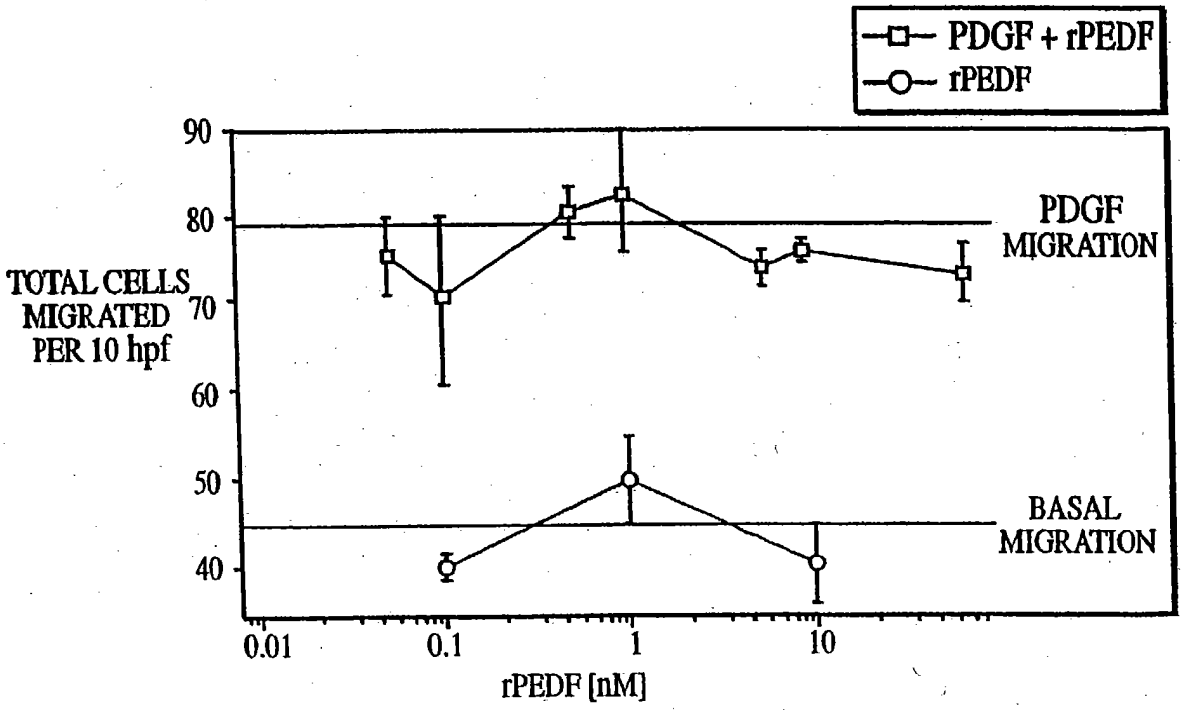

PDGF + rPEDF
rPEDF
90
80
70
60
50
40
TOTAL CELLS MIGRATED PER 10 hpf
PDGF MIGRATION
BASAL MIGRATION
0.01
0.1
1
10
rPEDF [nM]

FIG. 2C

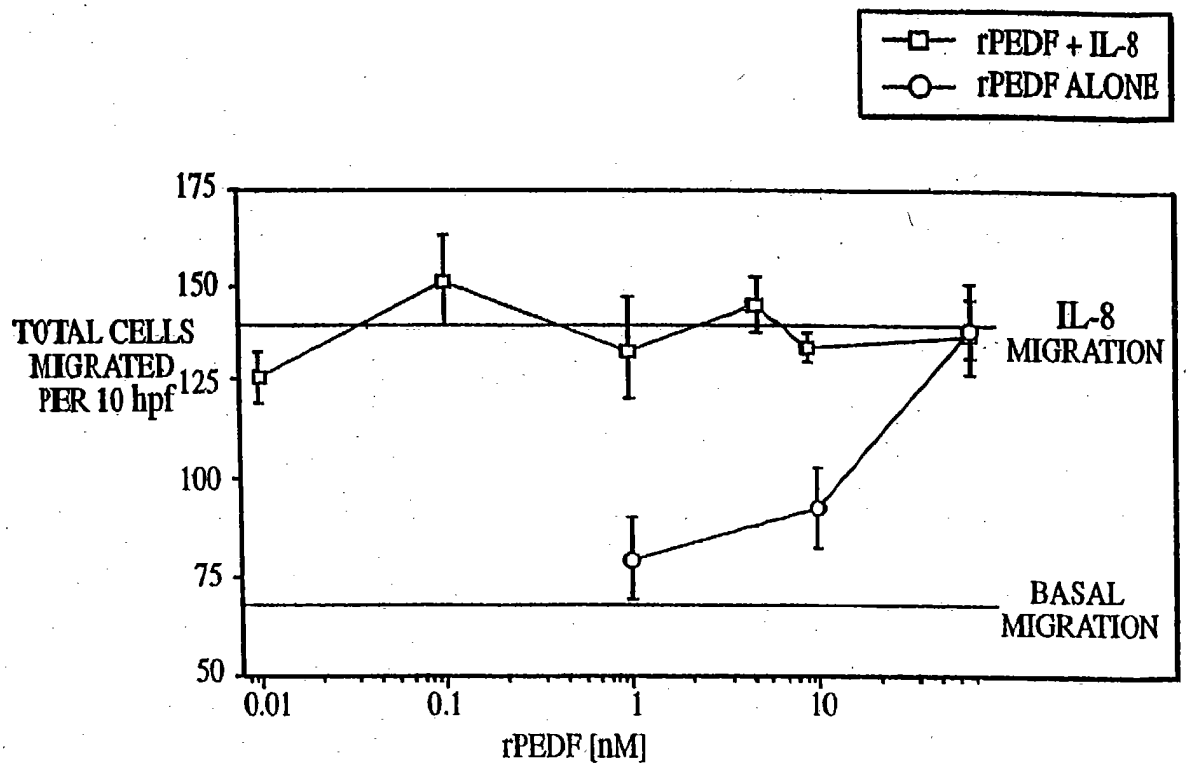

rPEDF + IL-8
rPEDF ALONE
175
150
125
100
75
50
TOTAL CELLS MIGRATED PER 10 hpf
IL-8 MIGRATION
BASAL MIGRATION
0.01
0.1
1
10
rPEDF [nM]

FIG. 2D

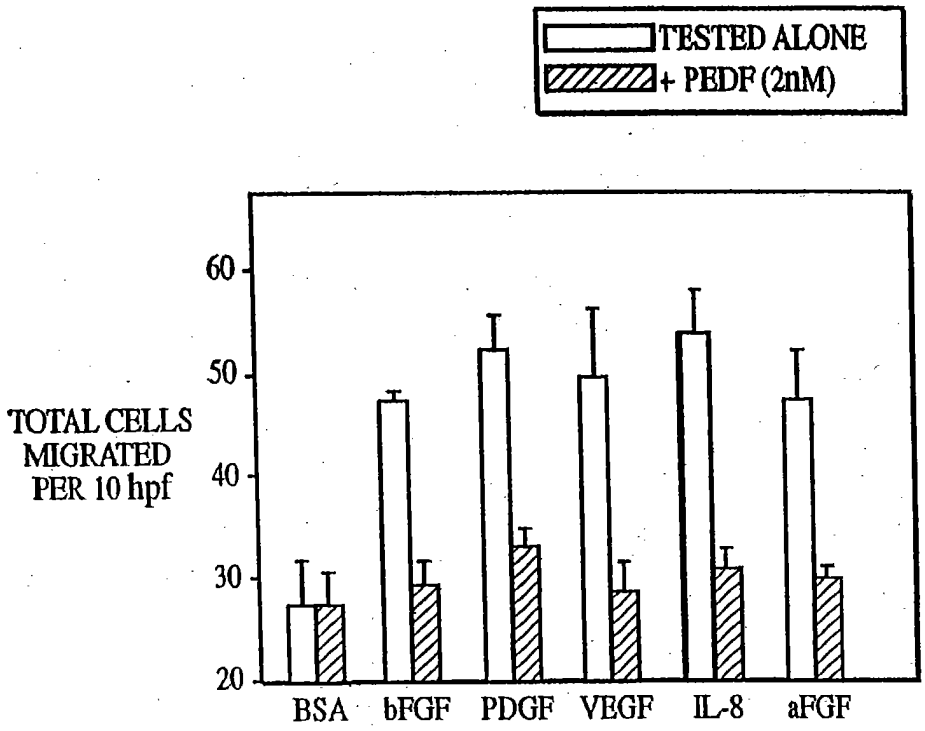

TESTED ALONE
+ PEDF (2nM)
TOTAL CELLS MIGRATED PER 10 hpf
60
50
40
30
20
BSA
bFGF
PDGF
VEGF
IL-8
aFGF

FIG. 3

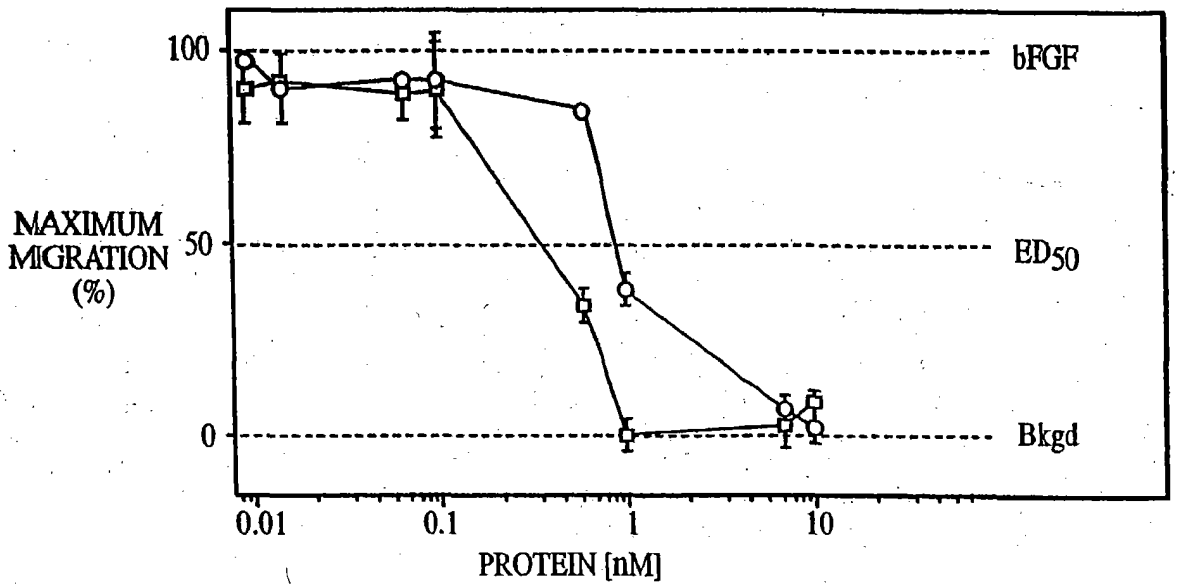

100
50
0
MAXIMUM MIGRATION (%)
bFGF
ED50
Bkgd
0.01
0.1
1
10
PROTEIN [nM]

FIG. 4

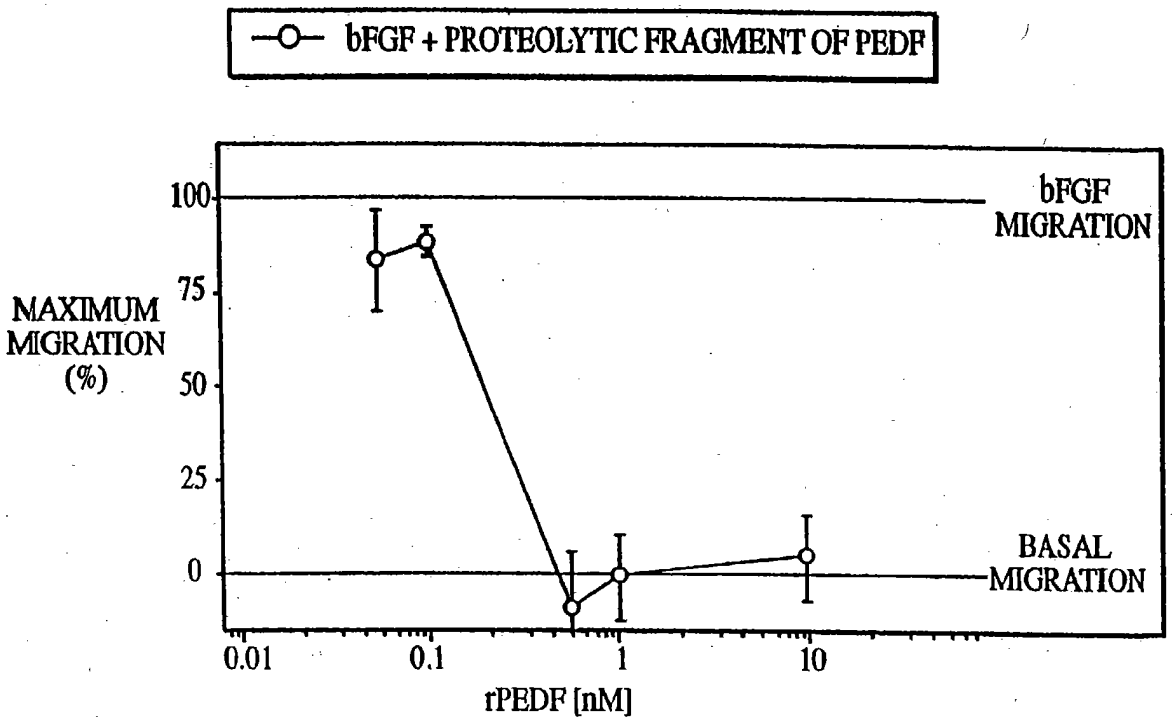

bFGF + PROTEOLYTIC FRAGMENT OF PEDF
MAXIMUM MIGRATION (%)
100
75
50
25
0
bFGF MIGRATION
BASAL MIGRATION
0.01
0.1
1
10
rPEDF [nM]

FIG. 5

MQALVLLLCIGALLGHSSCQNPASPPEEGSPDPD
STGALVEEEDPFFKVPVNKLAAAVSNFGYDLYRV
RSSMSPTTNVLLSPLSVATALSALSLGADERTES
IIHRALYYDLISSPDIHGTYKELLDTVTAPQKNL
KSASRIVFEKKLRIKSSFVAPLEKSYGTRPRVLT
GNPRLDLQEINNWVQAQMKGKLARSTKEIPDEIS
ILLLGVAHFKGQWVTKFDSRKTSLEDFYLDEERT
VRVPMMSDPKAVLRYGLDSDLSCKIAQLPLTGSM
SIIFFLPLKVTQNLTLIEESLTSEFIHDIDRELK
TVQAVLTVPKLKLSYEGEVTKSLQEMKLQSLFDS
PDFSKITGKPIKLTQVEHRAGFEWNEDGAGTTPS
PGLQPAHLTFPLDYHLNQPFIFVLRDTDTGALLF
IGKILDPRGP

FIG. 6A

FIG. 6B

GGACGCTGGA TTAGAAGGCA GCAAAAAAAG ATCTGTGCTG GCTGGAGCCC CCTCAGTGTG CAGGCTTAGA
GGGACTAGGC TGGGTGTGGA GCTGCAGCGT ATCCACAGGC CCCAGGATGC AGGCCCTGGT GCTACTCCTC
TGCATTGGAG CCCTCCTCGG GCACAGCAGC TGCCAGAACC CTGCCAGCCC CCCGGAGGAG GGCTCCCCAG
ACCCCGACAG CACAGGGGCG CTGGTGGAGG AGGAGGATCC TTTCTTCAAA GTCCCCGTGA ACAAGCTGGC
AGCGGCTGTC TCCAACTTCG GCTATGACCT GTACCGGGTG CGATCCAGCA TGAGCCCCAC GACCAACGTG
CTCCTGTCTC CTCTCAGTGT GGCCACGGCC CTCTCGGCCC TCTCGCTGGG AGCGGACGAG CGAACAGAAT
CCATCATTCA CCGGGCTCTC TACTATGACT TGATCAGCAG CCCAGACATC CATGGTACCT ATAAGGAGCT
CCTTGACACG GTCACTGCCC CCCAGAAGAA CCTCAAGAGT GCCTCCCGGA TCGTCTTTGA GAAGAAGCTR
CGCATAAAAT CCAGCTTTGT GGCACCTCTG GAAAAGTCAT ATGGGACCAG GCCCAGAGTC CTGACGGGCA
ACCCTCGCTT GGACCTGCAA GAGATCAACA ACTGGGTGCA GGCGCAGATG AAAGGGAAGC TCGCCAGGTC
CACAAAGGAA ATTCCCGATG AGATCAGCAT TCTCCTTCTC GGTGTGGCGC ACTTCAAGGG GCAGTGGGTA
ACAAAGTTTG ACTCCAGAAA GACTTCCCTC GAGGATTTCT ACTTGGATGA AGAGAGGACC GTGAGGGTCC
CCATGATGTC GGACCCTAAG GCTGTTTTAC GCTATGGCTT GGATTCAGAT CTCAGCTGCA AGATTGCCCA
GCTGCCCTTG ACCGGAAGCA TGAGTATCAT CTTCTTCCTG CCCCTGAAAG TGACCCAGAA TTTGACCTTG
ATAGAGGAGA GCCTCACCTC CGAGTTCATT CATGACATAG ACCGAGAACT GAAGACCGTG CAGGCGGTCC
TCACTGTCCC CAAGCTGAGG CTGAGTTACG AAGGCGAAGT CACCAAGTCC CTGCAGGAGA TGAAGCTGCA
ATCCTTGTTT GATTCACCAG ACTTTAGCAA GATCACAGGC AAACCCATCA AGCTGACTCA GGTGGAACAC
CGGGCTGGCT TTGAGTGGAA CGAGGATGGG GCGGGAACCA CCCCCAGCCC AGGGCTGCAG CCTGCCCACC
TCACCTTCCC GCTGGACTAT CACCTTAACC AGCCTTTCAT CTTCGTACTG AGGGACACAG ACACAGGGGC
CCTTCTCTTC ATTGGCAAGA TTCTGGACCC CAGGGGCCCC TAATATCCCA GTTTAATATT CCAATACCCT
AGAAGAAAAC CCGAGGGACA GCAGATTCCA CAGGACACGA AGGCTGCCCC TGTAAGGTTT CAATGCATAC
AATAAAAGAG CTTTATCCCT

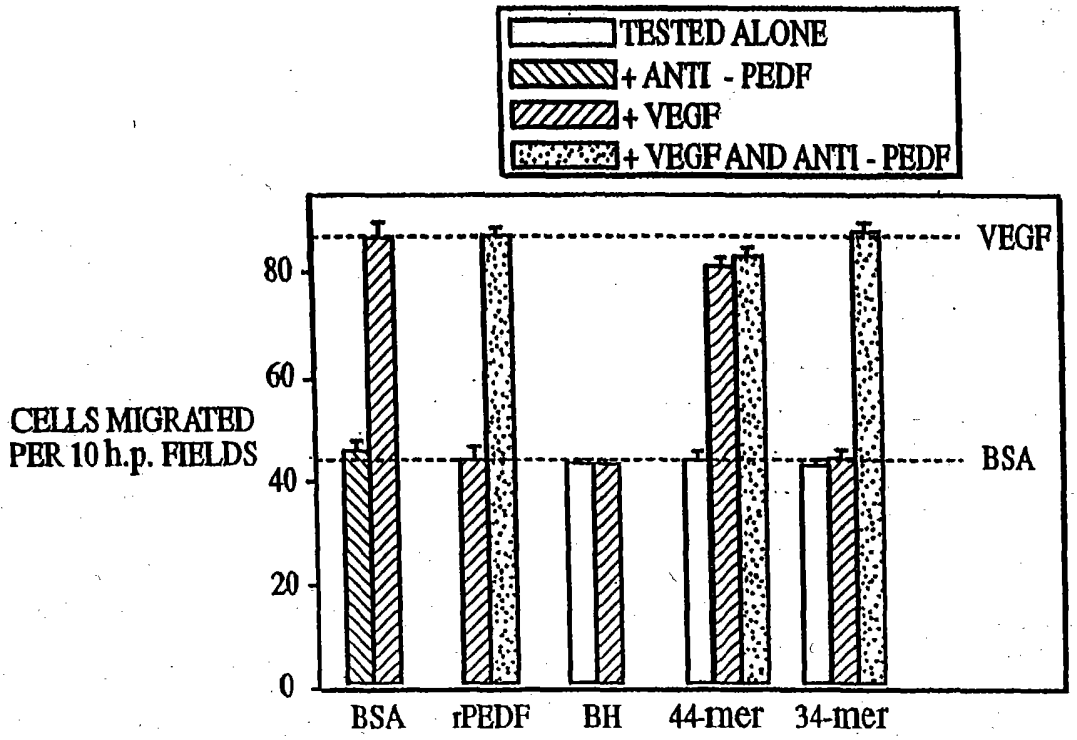

TESTED ALONE
+ ANTI - PEDF
+ VEGF
+ VEGF AND ANTI - PEDF
CELLS MIGRATED PER 10 h.p. FIELDS
0
20
40
60
80
VEGF
BSA
BSA
rPEDF
BH
44-mer
34-mer

FIG. 7A

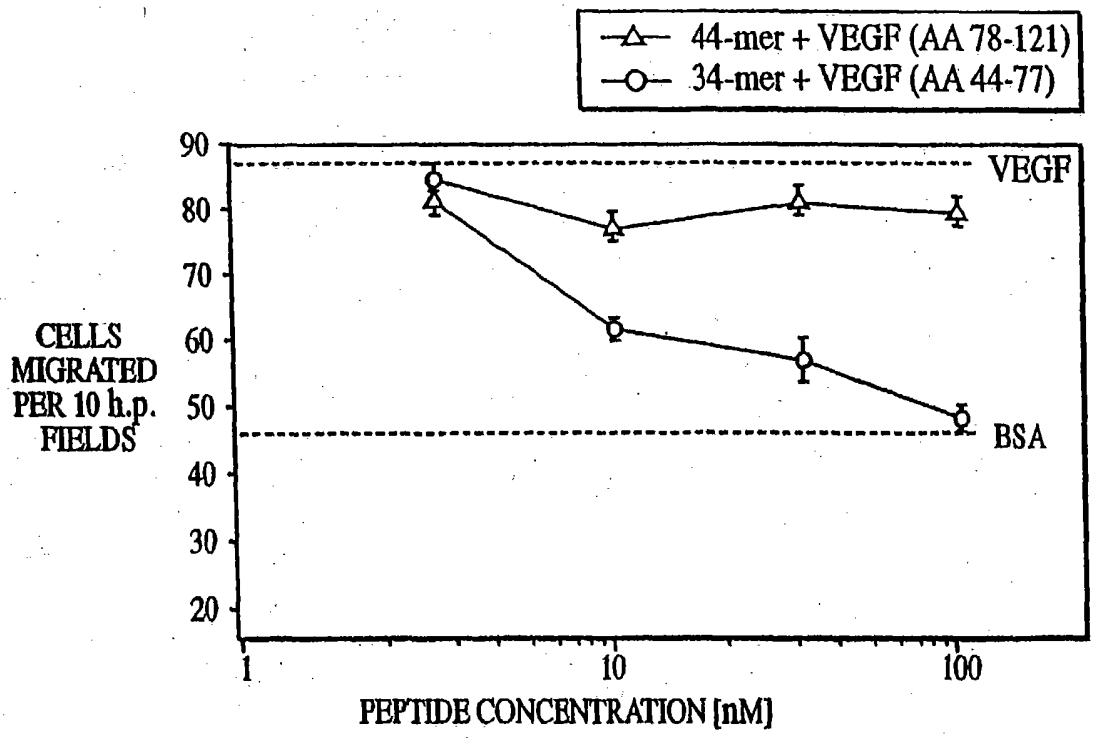

44-mer + VEGF (AA 78-121)
34-mer + VEGF (AA 44-77)
CELLS MIGRATED PER 10 h.p. FIELDS
20
30
40
50
60
70
80
90
VEGF
BSA
1
10
100
PEPTIDE CONCENTRATION [nM]

FIG. 7B

FIG.8A

FIG.8B

FIG.8C

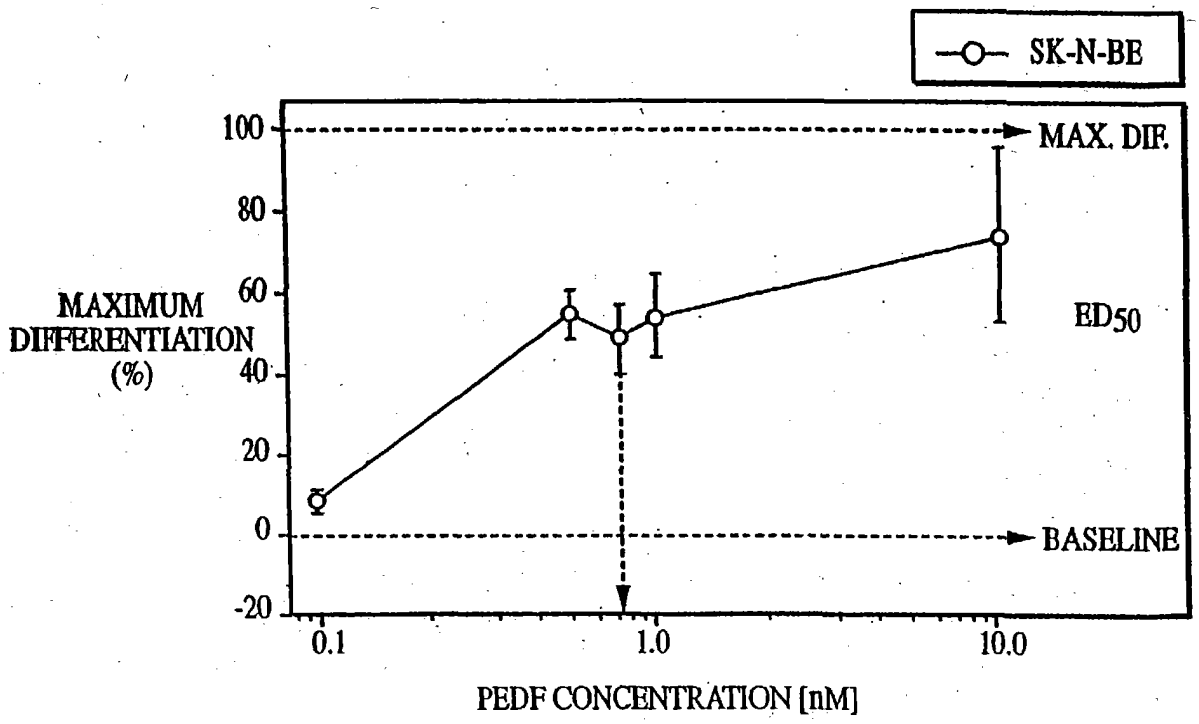

SK-N-BE
MAX. DIF.
ED50
BASELINE
MAXIMUM DIFFERENTIATION (%)
100
80
60
40
20
0
-20
0.1
1.0
10.0
PEDF CONCENTRATION [nM]

FIG. 9A

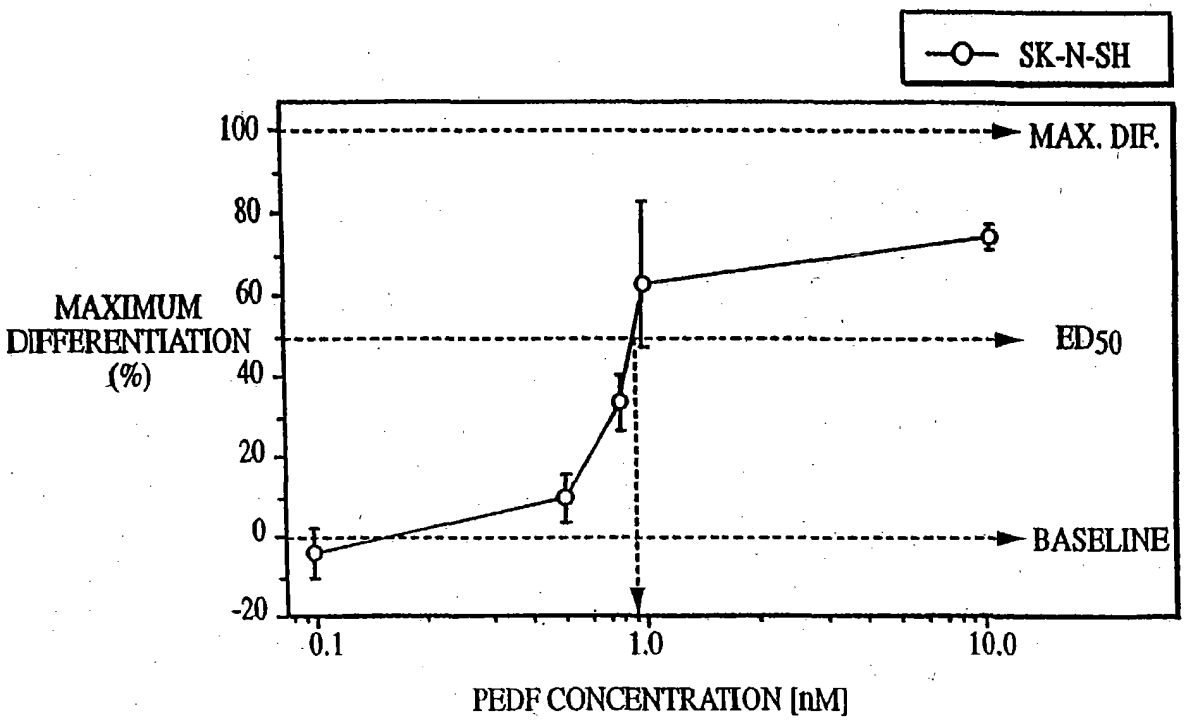

SK-N-SH
MAX. DIF.
ED50
BASELINE
MAXIMUM DIFFERENTIATION (%)
100
80
60
40
20
0
-20
0.1
1.0
10.0
PEDF CONCENTRATION [nM]

FIG. 9B

FIG.10A

FIG.10B

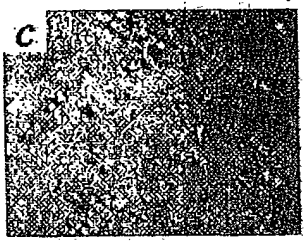


FIG.10C

FIG.11A

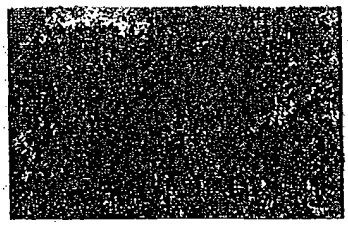


FIG.11B

FIG.11C

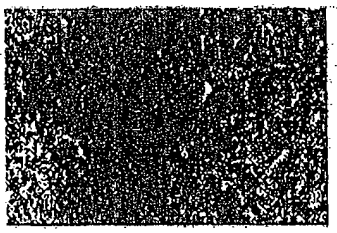


FIG.11D

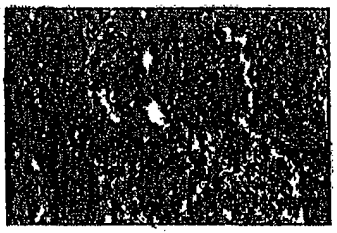


FIG.11E

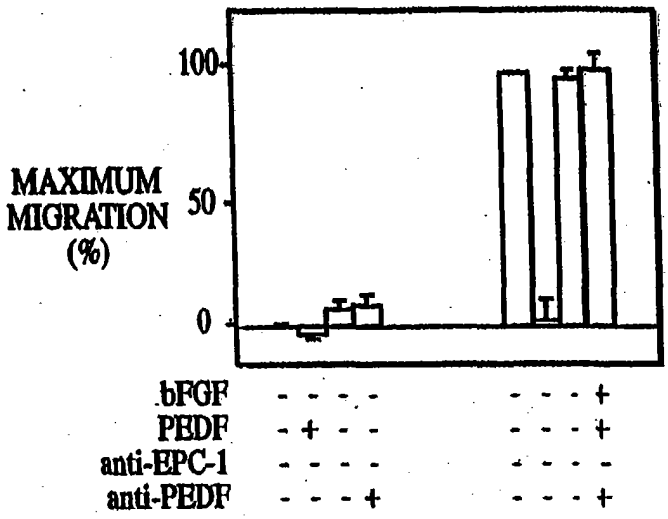


FIG. 12A

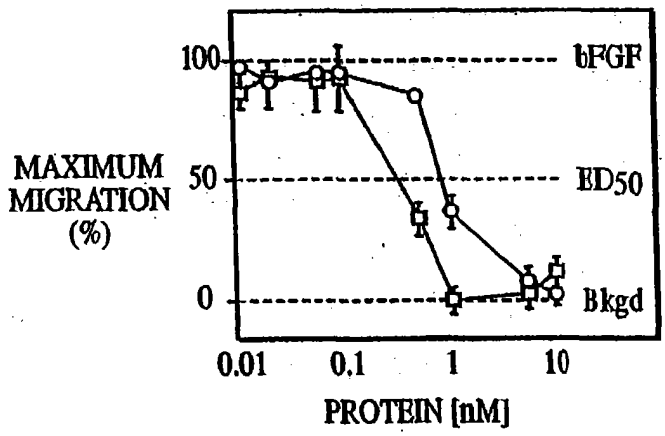


FIG. 12B

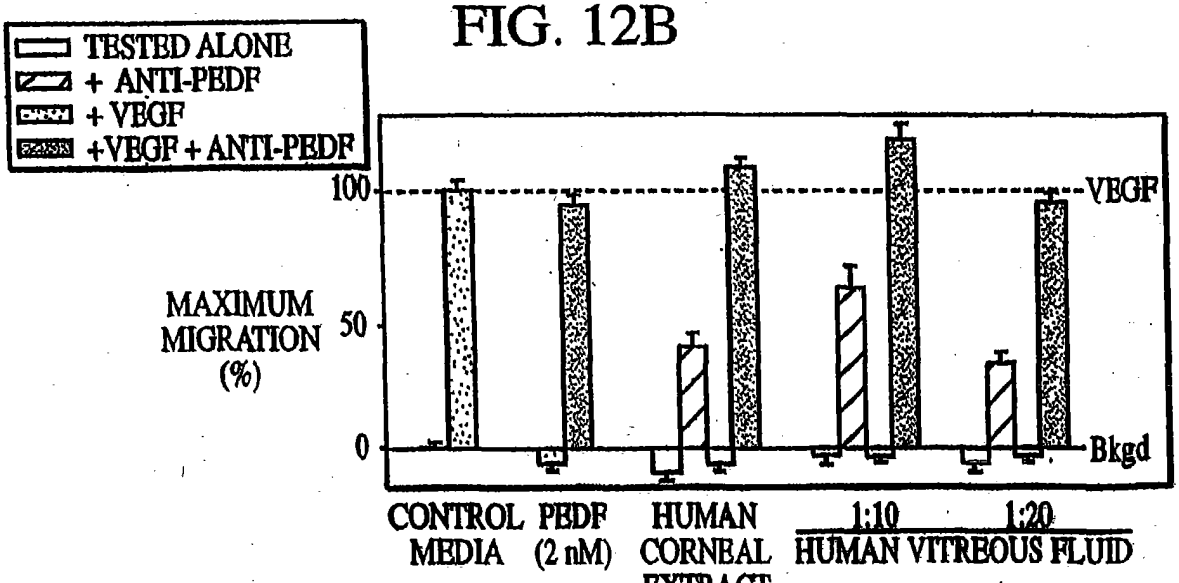


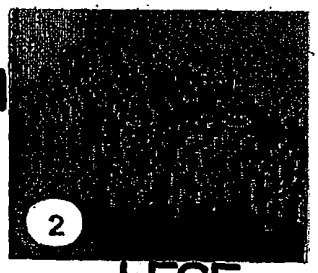
FIG. 12C

FIG. 13A

Sample	bFGF (0.15nM)	anti-PEDF (20 micrograms per milliliter)	anti-TGF-beta (50 micrograms per milliliter)	Positive Corneas/Total Implanted
1. PBS	-	-	-	0/2
2. PBS	+	-	-	8/8
3. PBS	-	+	-	5/5
4. PBS	-	-	+	0/2
5. PEDF peptide	-	-	-	0/2
6. PEDF peptide	-	+	-	1/4[a]
7. rPEDF	-	-	-	0/2
8. rPEDF	+	-	-	0/3
9. pPEDF	-	-	-	0/3
10. pPEDF	+	-	-	0/3
BEFORE	**PEDF**	**REMOVAL**		
11. Vitreous	-	-	-	0/4
12. Vitreous	+	-	-	0/4
13. Vitreous	-	-	+	0/3
14. Vitreous	+	-	+	0/3
15. Cornea extract	-	-	-	0/3
16. Cornea extract	+	-	-	1/4
AFTER	**PEDF**	**REMOVAL**		
17. Vitreous	-	-	-	6/6
18. Cornea extract	-	-	-	4/4
19. Cornea extract	+	-	-	3/3

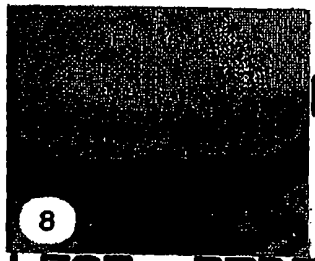
[a] One cornea gave a mild response with a few sprouting vessels that did not reach the pellet.

FIG.13B-1



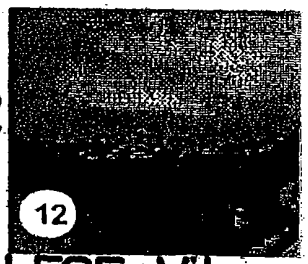
bFGF

FIG.13B-5



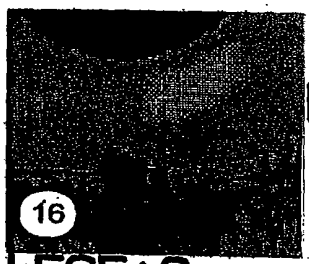
bFGF+rPEDF

FIG.13B-2



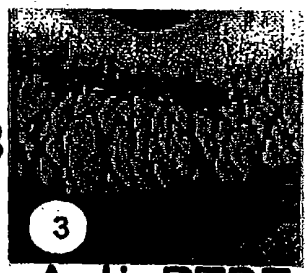
bFGF+Vitreous

FIG.13B-6



bFGF+CornealExt

FIG.13B-3

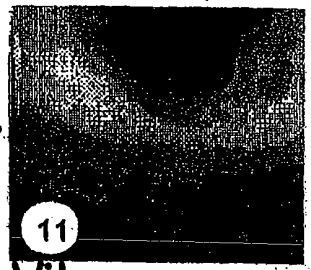


Anti-PEDF

FIG.13B-7

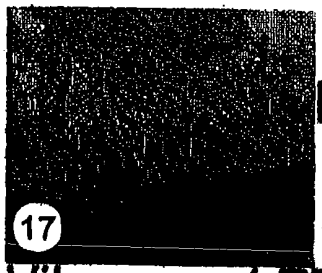
Anti-PEDF+peptide

FIG.13B-4



Vitreous

FIG.13B-8



Vitreous w/o PEDF

FIG.14A

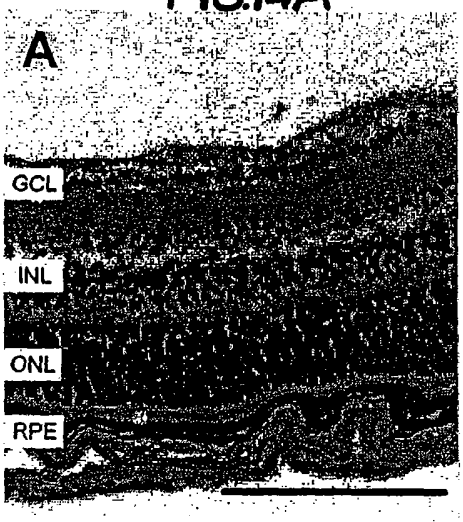
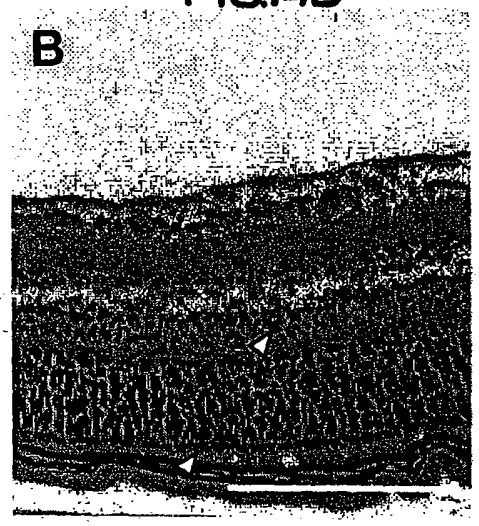


FIG.14B



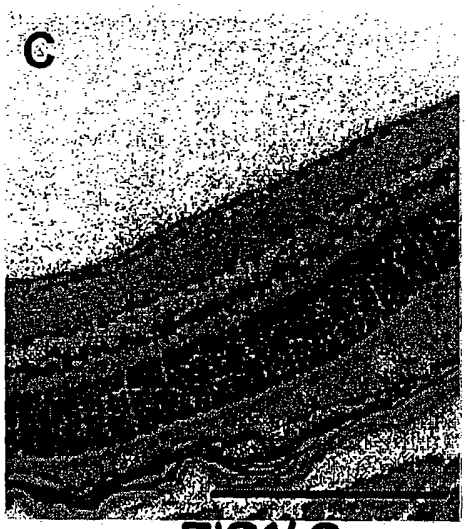


FIG.14C

FIG.14D

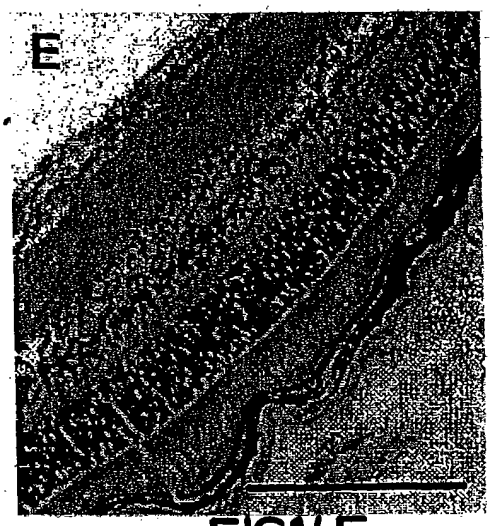


FIG.14E

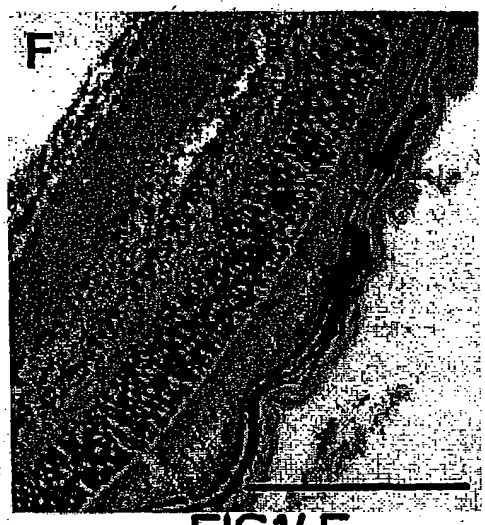


FIG.14F

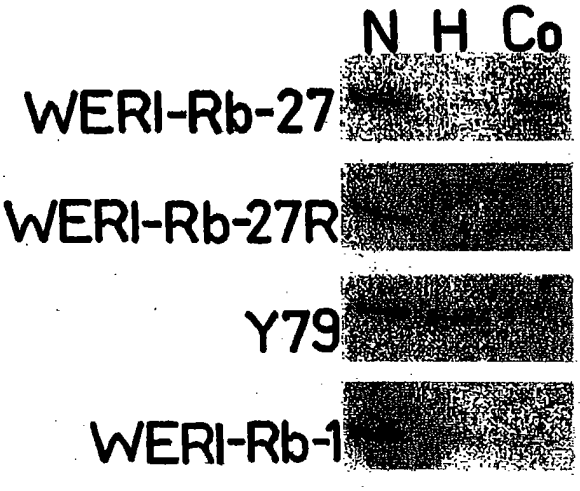


FIG.15A

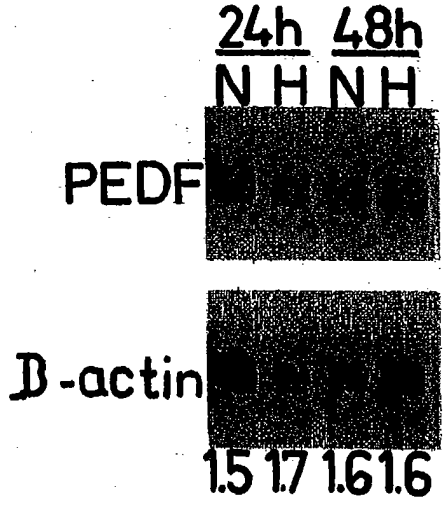


FIG. 15B

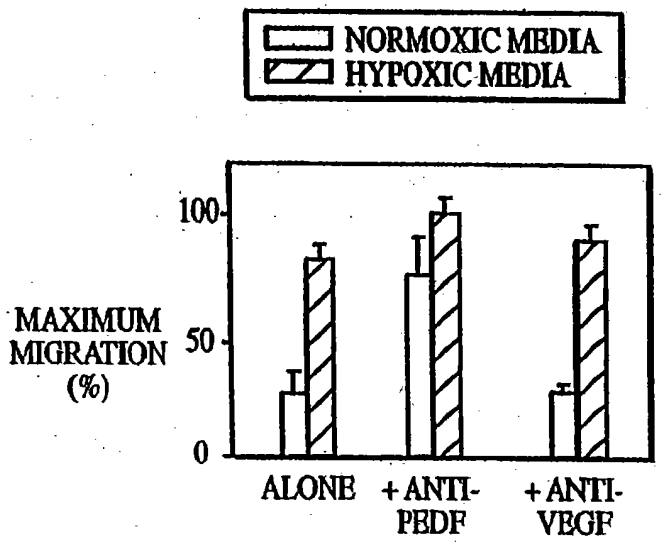

NORMOXIC MEDIA
HYPOXIC MEDIA
MAXIMUM MIGRATION (%)
100
50
0
ALONE
+ANTI-PEDF
+ANTI-VEGF

FIG. 15C